

Occupational Employment Statistics
Occupational Structure
1997 - 1998

Occupational Employment Statistics (OES) Survey
Office of Employment and Unemployment Statistics
Bureau of Labor Statistics
U.S. Department of Labor

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<http://stats.bls.gov/oeshome.htm>

10000 I. Managerial and Administrative Occupations**13000 A. Staff and Administrative Specialty Managerial Occupations**

- 13002 Financial Managers
- 13005 Personnel, Training, and Labor Relations Managers
- 13008 Purchasing Managers
- 13011 Marketing, Advertising, and Public Relations Managers
- 13014 Administrative Services Managers
- 13017 Engineering, Mathematical, and Natural Sciences Managers

15000 B. Line and Middle Management Industry Specific Managerial Occupations

- 15002 Postmasters and Mail Superintendents
- 15005 Education Administrators
- 15008 Medicine and Health Services Managers
- 15011 Property and Real Estate Managers and Administrators
- 15014 Industrial Production Managers
- 15017 Construction Managers
- 15021 Mining, Quarrying, and Oil and Gas Well Drilling Managers
- 15023 Communications, Transportation, and Utilities Operations Managers
- 15026 Food Service and Lodging Managers
- 15031 Nursery and Greenhouse Managers
- 15032 Lawn Service Managers

19000 C. Other Managerial and Administrative Occupations

- 19002 Public Administration Chief Executives, Legislators, and General Administrators
- 19005 General Managers and Top Executives
- 19999 All Other Managers and Administrators

20000 II. Professional, Paraprofessional, and Technical Occupations

21000 A. Management Support Occupations

21100 1. Accountants, Auditors, and Other Financial Specialists

- 21102 Insurance Underwriters
- 21105 Credit Analysts
- 21108 Loan Officers and Counselors
- 21111 Tax Preparers
- 21114 Accountants and Auditors
- 21117 Budget Analysts
- 21199 All Other Financial Specialists

21300 2. Purchasing Agents and Buyers

- 21302 Wholesale and Retail Buyers, Except Farm Products
- 21305 Purchasing Agents and Buyers, Farm Products
- 21308 Purchasing Agents, Except Wholesale, Retail, and Farm Products

21500 3. Personnel, Training, Labor Relations Specialists, and Related Workers

- 21502 Claims Takers, Unemployment Benefits
- 21505 Special Agents, Insurance
- 21508 Employment Interviewers, Private or Public Employment Service
- 21511 Personnel, Training, and Labor Relations Specialists

21900 4. Other Management Support Workers

- 21902 Cost Estimators
- 21905 Management Analysts
- 21908 Construction and Building Inspectors
- 21911 Compliance Officers and Enforcement Inspectors, Except Construction
- 21914 Tax Examiners, Collectors, and Revenue Agents
- 21917 Assessors
- 21921 Claims Examiners, Property and Casualty Insurance
- 21999 All Other Management Support Workers

22000 B. Engineers and Related Occupations**22100 1. Engineers**

- 22102 Aeronautical and Astronautical Engineers
- 22105 Metallurgists and Metallurgical, Ceramic, and Materials Engineers
- 22108 Mining Engineers, Including Mine Safety
- 22111 Petroleum Engineers
- 22114 Chemical Engineers
- 22117 Nuclear Engineers
- 22121 Civil Engineers, Including Traffic
- 22123 Agricultural Engineers
- 22126 Electrical and Electronic Engineers
- 22127 Computer Engineers
- 22128 Industrial Engineers, Except Safety
- 22132 Safety Engineers, Except Mining
- 22135 Mechanical Engineers
- 22138 Marine Engineers
- 22199 All Other Engineers

22300 2. Architects and Surveying and Mapping Scientists

- 22302 Architects, Except Landscape and Marine
- 22305 Marine Architects
- 22308 Landscape Architects
- 22311 Surveyors and Mapping Scientists

22500 3. Engineering and Related Technicians and Technologists

- 22502 Civil Engineering Technicians and Technologists
- 22505 Electrical and Electronic Engineering Technicians and Technologists
- 22508 Industrial Engineering Technicians and Technologists
- 22511 Mechanical Engineering Technicians and Technologists
- 22514 Drafters
- 22517 Estimators and Drafters, Utilities
- 22521 Surveying and Mapping Technicians
- 22599 All Other Engineering and Related Technicians and Technologists

24000 C. Natural Scientists and Related Workers**24100 1. Physical Scientists**

- 24102 Physicists and Astronomers
- 24105 Chemists, Except Biochemists
- 24108 Atmospheric and Space Scientists
- 24111 Geologists, Geophysicists, and Oceanographers
- 24199 All Other Physical Scientists

24300 2. Life Scientists

- 24302 Foresters and Conservation Scientists
- 24305 Agricultural and Food Scientists
- 24308 Biological Scientists
- 24311 Medical Scientists
- 24399 All Other Life Scientists

24500 3. Physical and Life Science Technicians and Technologists

- 24502 Biological, Agricultural, and Food Technicians and Technologists, Except Health
- 24505 Chemical Technicians and Technologists, Except Health
- 24508 Nuclear Technicians and Technologists
- 24511 Petroleum Technicians and Technologists
- 24599 All Other Physical and Life Science Technicians and Technologists

25000 D. Computer, Mathematical, Operations Research, and Related Occupations**25100 1. Computer Scientists and Related Workers**

- 25102 Systems Analysts, Electronic Data Processing
- 25103 Data Base Administrators
- 25104 Computer Support Specialists
- 25105 Computer Programmers
- 25108 Computer Programmer Aides
- 25111 Programmers, Numerical Tool and Process Control
- 25199 All Other Computer Scientists

25300 *2. Mathematical Scientists and Related Workers*

- 25302 Operations and Systems Researchers and Analysts, Except Computer
- 25310 Mathematical Scientists
- 25312 Statisticians
- 25313 Actuaries
- 25315 Financial Analysts, Statistical
- 25319 All Other Mathematical Scientists
- 25323 Mathematical Technicians

27000 **E. Social Scientists and Other Social, Recreational, and Religious Occupations****27100** *1. Social Scientists, Including Urban and Regional Planners*

- 27102 Economists, Including Market Research Analysts
- 27105 Urban and Regional Planners
- 27108 Psychologists
- 27199 All Other Social Scientists

27300 *2. Other Social Science Related Workers*

- 27302 Social Workers, Medical and Psychiatric
- 27305 Social Workers, Except Medical and Psychiatric
- 27307 Residential Counselors
- 27308 Human Services Workers
- 27311 Recreation Workers

27500 *3. Religious Workers*

- 27502 Clergy
- 27505 Directors, Religious Activities and Education
- 27599 All Other Religious Workers

28000 F. Law and Related Occupations**28100 1. Lawyers and Related Workers**

- 28102 Judges and Magistrates
- 28105 Adjudicators, Hearings Officers, and Judicial Reviewers
- 28108 Lawyers

28300 2. Legal Assistants and Technicians, Except Clerical

- 28302 Law Clerks
- 28305 Paralegal Personnel
- 28308 Title Searchers
- 28311 Title Examiners and Abstractors
- 28399 All Other Legal Assistants and Technicians, Except Clerical

31000 G. Teachers, Educators, Librarians, and Related Occupations**31100 1. Teachers- College, Junior College, University, Professional School, or Technical Institute**

- 31111 Lecturers
- 31114 Nursing Instructors, Postsecondary
- 31117 Graduate Assistants, Teaching
- 31201 Agricultural Sciences Teachers, Postsecondary
- 31202 Life Sciences Teachers, Postsecondary
- 31204 Chemistry Teachers, Postsecondary
- 31206 Physics Teachers, Postsecondary
- 31209 All Other Physical Sciences Teachers, Postsecondary
- 31211 Health Diagnostics Teachers, Postsecondary
- 31212 Health Assessment and Treatment Teachers, Postsecondary
- 31213 Communications Teachers, Postsecondary
- 31214 English Language and Literature Teachers, Postsecondary
- 31215 Foreign Language and Literature Teachers, Postsecondary
- 31218 Art, Drama, and Music Teachers, Postsecondary
- 31222 Engineering Teachers, Postsecondary
- 31223 Architecture Teachers, Postsecondary
- 31224 Mathematical Sciences Teachers, Postsecondary
- 31226 Computer Science Teachers, Postsecondary
- 31230 Social Sciences Teachers, Postsecondary
- 31231 Anthropology and Sociology Teachers, Postsecondary
- 31232 Area, Ethnic, and Cultural Studies Teachers, Postsecondary
- 31233 Economics Teachers, Postsecondary
- 31234 Geography Teachers, Postsecondary
- 31235 History Teachers, Postsecondary
- 31236 Political Science Teachers, Postsecondary
- 31237 Psychology Teachers, Postsecondary
- 31239 All Other Social Sciences Teachers, Postsecondary

- 31242 Business Teachers, Postsecondary
- 31244 Law Teachers, Postsecondary
- 31246 Criminal Justice and Law Enforcement Teachers, Postsecondary
- 31247 Social Work Teachers, Postsecondary
- 31252 Education Teachers, Postsecondary
- 31254 Philosophy and Religion Teachers, Postsecondary
- 31256 Library Science Teachers, Postsecondary
- 31258 Parks, Recreation, Leisure, and Fitness Studies Teachers,
Postsecondary
- 31262 Home Economics Teachers, Postsecondary
- 31299 All Other Postsecondary Teachers

31300 *2. Other Teachers and Instructors*

- 31303 Teachers, Preschool
- 31304 Teachers, Kindergarten
- 31305 Teachers, Elementary School
- 31308 Teachers, Secondary School
- 31311 Teachers, Special Education
- 31314 Teachers and Instructors, Vocational Education and Training
- 31317 Instructors, Nonvocational Education
- 31321 Instructors and Coaches, Sports and Physical Training
- 31323 Farm and Home Management Advisors
- 31399 All Other Teachers and Instructors

31500 *3. Librarians, Archivists, Curators, and Other Education Related Workers*

- 31502 Librarians, Professional
- 31505 Technical Assistants, Library
- 31508 Audio-Visual Specialists
- 31511 Curators, Archivists, Museum Technicians, and Conservators
- 31514 Vocational and Educational Counselors
- 31517 Instructional Coordinators
- 31521 Teacher Aides, Paraprofessional

32000 H. Health Practitioners, Technologists, Technicians, and Related Health Occupations

32100 *1. Health Diagnosing and Treating Practitioners*

- 32102 Physicians and Surgeons
- 32105 Dentists
- 32108 Optometrists
- 32111 Podiatrists
- 32113 Chiropractors
- 32114 Veterinarians and Veterinary Inspectors
- 32199 All Other Health Diagnosing and Treating Practitioners

32300 2. Therapists

- 32302 Respiratory Therapists
- 32305 Occupational Therapists
- 32308 Physical Therapists
- 32311 Corrective and Manual Arts Therapists
- 32314 Speech-Language Pathologists and Audiologists
- 32317 Recreational Therapists
- 32399 All Other Therapists

32500 3. Health Care Maintenance and Treating Workers

- 32502 Registered Nurses
- 32505 Licensed Practical Nurses
- 32508 Emergency Medical Technicians
- 32511 Physician Assistants
- 32514 Opticians, Dispensing and Measuring
- 32517 Pharmacists
- 32518 Pharmacy Technicians
- 32521 Dietitians and Nutritionists
- 32523 Dietetic Technicians

32900 4. Other Health Professionals, Paraprofessionals, and Technicians

- 32902 Medical and Clinical Laboratory Technologists
- 32905 Medical and Clinical Laboratory Technicians
- 32908 Dental Hygienists
- 32911 Medical Records Technicians
- 32913 Radiation Therapists
- 32914 Nuclear Medicine Technologists
- 32919 Radiologic Technologists
- 32923 Electroneurodiagnostic Technologists
- 32925 Cardiology Technologists
- 32926 Electrocardiograph Technicians
- 32928 Surgical Technologists and Technicians
- 32931 Psychiatric Technicians
- 32951 Veterinary Technicians and Technologists
- 32999 All Other Health Professionals, Paraprofessionals, and Technicians

34000 I. Writers, Artists, Entertainers, Athletes, and Related Occupations

- 34002 Writers and Editors
- 34005 Technical Writers and Editors
- 34008 Public Relations Specialists and Publicity Writers
- 34011 Reporters and Correspondents
- 34014 Broadcast News Analysts
- 34017 Announcers, Radio and Television
- 34021 Announcers, Except Radio and Television
- 34023 Photographers
- 34026 Camera Operators, Television and Motion Picture
- 34028 Broadcast Technicians
- 34032 Film Editors
- 34035 Artists and Related Workers
- 34038 Designers, Except Interior Designers
- 34041 Interior Designers
- 34044 Merchandise Displayers and Window Trimmers
- 34047 Music Directors, Singers, Composers, and Related Workers
- 34051 Musicians, Instrumental
- 34053 Dancers and Choreographers
- 34056 Producers, Directors, Actors, and Other Entertainers
- 34058 Athletes, Coaches, Umpires, and Related Workers

39000 J. Other Professional, Paraprofessional, and Technical Occupations

- 39002 Airplane Dispatchers and Air Traffic Controllers
- 39005 Traffic Technicians
- 39008 Radio Operators
- 39011 Funeral Directors and Morticians
- 39014 Embalmers
- 39999 All Other Professional, Paraprofessional, and Technical Workers

40000 III. Sales and Related Occupations

41000 A. First Line Supervisors and Manager/Supervisors

41002 First-Line Supervisors and Managers/Supervisors - Sales and Related Workers

43000 B. Sales Occupations, Services

43002 Sales Agents and Placers, Insurance
43005 Brokers, Real Estate
43008 Sales Agents, Real Estate
43011 Appraisers, Real Estate
43014 Sales Agents, Securities, Commodities, and Financial Services
43017 Sales Agents, Selected Business Services
43021 Travel Agents
43023 Sales Agents, Advertising
43099 All Other Sales Representatives and Salespersons, Services

49000 C. Merchandise, Products, and Other Sales and Sales-Related Occupations

49002 Sales Engineers
49005 Sales Representatives, Scientific and Related Products and Services, Except Retail
49008 Sales Representatives, Except Retail and Scientific and Related Products and Services
49011 Salespersons, Retail
49014 Salespersons, Parts
49017 Counter and Rental Clerks
49021 Stock Clerks, Sales Floor
49023 Cashiers
49026 Telemarketers, Door-To-Door Sales Workers, News and Street Vendors, and Other Related Workers
49034 Demonstrators and Promoters
49036 Models
49999 All Other Sales and Related Workers

50000 IV. Clerical and Administrative Support Occupations**51000 A. First Line Supervisors and Manager/Supervisors**

51002 First-Line Supervisors and Managers/Supervisors - Clerical and Administrative Support Workers

53000 B. Industry Specific Clerical and Administrative Support Occupations**53100 1. Banking, Security, Finance, and Credit Workers**

53102 Tellers
53105 New Accounts Clerks
53108 Transit Clerks
53111 Loan Interviewers
53114 Credit Authorizers
53117 Credit Checkers
53121 Loan and Credit Clerks
53123 Adjustment Clerks
53126 Statement Clerks
53128 Brokerage Clerks

53300 2. Insurance Workers

53302 Insurance Adjusters, Examiners, and Investigators
53305 Insurance Appraisers, Auto Damage
53308 Insurance Examining Clerks
53311 Insurance Claims Clerks
53314 Insurance Policy Processing Clerks

53500 3. Investigative and Related Workers, Except Insurance

53502 Welfare Eligibility Workers and Interviewers
53505 Investigators, Clerical
53508 Bill and Account Collectors

53700 4. Municipal and Related Workers

53702 Court Clerks
53705 Municipal Clerks
53708 License Clerks

53800 5. Lodging and Travel Workers

53802 Travel Clerks
53805 Reservation and Transportation Ticket Agents
53808 Hotel Desk Clerks

53900 6. Other Industry Specific Workers

- 53902 Library Assistants and Bookmobile Drivers
- 53905 Teacher Aides and Educational Assistants, Clerical
- 53908 Advertising Clerks
- 53911 Proofreaders and Copy Markers
- 53914 Real Estate Clerks

55000 C. Secretarial and General Office Occupations**55100 1. Secretaries**

- 55102 Legal Secretaries
- 55105 Medical Secretaries
- 55108 Secretaries, Except Legal and Medical

55300 2. Other Secretarial Related and General Office Workers

- 55302 Stenographers and/or Court Reporters
- 55305 Receptionists and Information Clerks
- 55307 Typists, Including Word Processing
- 55314 Personnel Clerks, Except Payroll and Timekeeping
- 55317 Correspondence Clerks
- 55321 File Clerks
- 55323 Order Clerks, Materials, Merchandise, and Service
- 55326 Procurement Clerks
- 55328 Statistical Clerks
- 55332 Interviewing Clerks, Except Personnel and Social Welfare
- 55335 Customer Service Representatives, Utilities
- 55338 Bookkeeping, Accounting, and Auditing Clerks
- 55341 Payroll and Timekeeping Clerks
- 55344 Billing, Cost, and Rate Clerks
- 55347 General Office Clerks

56000 D. Electronic Data Processing and Other Office Machine Occupations

- 56002 Billing, Posting, and Calculating Machine Operators
- 56005 Duplicating Machine Operators
- 56008 Mail Machine Operators, Preparation and Handling
- 56011 Computer Operators, Except Peripheral Equipment
- 56014 Peripheral EDP Equipment Operators
- 56017 Data Entry Keyers, Except Composing
- 56021 Data Keyers, Composing
- 56099 All Other Office Machine Operators

57000 E. Communications, Mail, and Message Distributing Occupations**57100 1. Communications Equipment Operators**

- 57102 Switchboard Operators
- 57105 Directory Assistance Operators
- 57108 Central Office Operators
- 57111 Telegraph and Teletype Operators
- 57199 All Other Communications Equipment Operators

57300 2. Mail and Message Distribution Workers

- 57302 Mail Clerks, Except Mail Machine Operators and Postal Service
- 57305 Postal Mail Carriers
- 57308 Postal Service Clerks
- 57311 Messengers

58000 F. Material Recording, Scheduling, Dispatching, and Distributing Occupations

- 58002 Dispatchers, Police, Fire, and Ambulance
- 58005 Dispatchers, Except Police, Fire, and Ambulance
- 58008 Production, Planning, and Expediting Clerks
- 58011 Transportation Agents
- 58014 Meter Readers, Utilities
- 58017 Weighers, Measurers, Checkers, and Samplers, Recordkeeping
- 58021 Marking Clerks
- 58023 Stock Clerks - Stockroom, Warehouse or Storage Yard
- 58026 Order Fillers, Wholesale and Retail Sales
- 58028 Shipping, Receiving, and Traffic Clerks
- 58099 All Other Material Recording, Scheduling, and Distributing Workers

59000 G. Other Clerical and Administrative Support Occupations

- 59999 All Other Clerical and Administrative Support Workers

60000 V. Service Occupations

61000 A. First Line Supervisors and Manager/Supervisors- Service

- 61002 Fire Fighting and Prevention Supervisors
- 61005 Police and Detective Supervisors
- 61008 Housekeeping Supervisors
- 61099 All Other Supervisors and Managers/Supervisors - Service Workers

63000 B. Protective Service Occupations

- 63002 Fire Inspectors
- 63005 Forest Fire Inspectors and Prevention Specialists
- 63008 Fire Fighters
- 63011 Police Detectives
- 63014 Police Patrol Officers
- 63017 Correction Officers and Jailers
- 63021 Parking Enforcement Officers
- 63023 Bailiffs
- 63026 United States Marshals
- 63028 Criminal Investigators, Public Service
- 63032 Sheriffs and Deputy Sheriffs
- 63035 Detectives and Investigators, Except Public
- 63038 Railroad and Transit Police and Special Agents
- 63041 Fish and Game Wardens
- 63044 Crossing Guards
- 63047 Guards and Watch Guards
- 63099 All Other Protective Service Workers

65000 C. Food and Beverage Preparation and Service Occupations

- 65002 Hosts and Hostesses, Restaurant, Lounge, or Coffee Shop
- 65005 Bartenders
- 65008 Waiters and Waitresses
- 65011 Food Servers, Outside
- 65014 Dining Room and Cafeteria Attendants and Bartender Helpers
- 65017 Counter Attendants - Lunchroom, Coffee Shop, or Cafeteria
- 65021 Bakers, Bread and Pastry
- 65023 Butchers and Meat Cutters
- 65026 Cooks, Restaurant
- 65028 Cooks, Institution or Cafeteria
- 65032 Cooks, Fast Food
- 65035 Cooks, Short Order
- 65038 Food Preparation Workers
- 65041 Combined Food Preparation and Service Workers
- 65099 All Other Food Service Workers

66000 D. Health Service and Related Occupations

- 66002 Dental Assistants
- 66005 Medical Assistants
- 66008 Nursing Aides, Orderlies, and Attendants
- 66011 Home Health Aides
- 66014 Psychiatric Aides
- 66017 Physical and Corrective Therapy Assistants and Aides
- 66021 Occupational Therapy Assistants and Aides
- 66023 Ambulance Drivers and Attendants, Except Emergency Medical Technicians
- 66026 Pharmacy Aides
- 66099 All Other Health Service Workers

67000 E. Cleaning and Building Service Occupations

- 67002 Maids and Housekeeping Cleaners
- 67005 Janitors and Cleaners, Except Maids and Housekeeping Cleaners
- 67008 Pest Controllers and Assistants
- 67011 Elevator Operators
- 67099 All Other Cleaning and Building Service Workers

68000 F. Personal Service Occupations

- 68002 Barbers
- 68005 Hairdressers, Hairstylists, and Cosmetologists
- 68008 Manicurists
- 68011 Shampooers
- 68014 Amusement and Recreation Attendants
- 68017 Guides
- 68021 Ushers, Lobby Attendants, and Ticket Takers
- 68023 Baggage Porters and Bellhops
- 68026 Flight Attendants
- 68028 Transportation Attendants, Except Flight Attendants and Baggage Porters
- 68032 Wardrobe, and Locker and Dressing Room Attendants
- 68035 Personal and Home Care Aides
- 68038 Child Care Workers
- 68041 Funeral Attendants

69000 G. Other Service Occupations

- 69999 All Other Service Workers

70000 VI. Agricultural, Forestry, Fishing, and Related Occupations

72000 A. First Line Supervisors

72002 First-Line Supervisors and Managers/Supervisors - Agricultural, Forestry, Fishing, and Related Workers

73000 B. Timber Cutting and Logging Occupations- See Also Material Moving - Next Division

73002 Fallers and Buckers

73005 Choke Setters

73008 Log-Handling Equipment Operators

73011 Logging Tractor Operators

73099 All Other Timber Cutting and Related Logging Workers

79000 C. Other Agricultural, Forestry, Fishing, and Related Occupations

79002 Forest and Conservation Workers

79008 Log Graders and Scalers

79011 Graders and Sorters, Agricultural Products

79015 Animal Breeders

79016 Animal Trainers

79017 Animal Caretakers, Except Farm

79021 Farm Equipment Operators

79033 Pruners

79036 Sprayers/Applicators

79041 Laborers, Landscaping and Groundskeeping

79806 Veterinary Assistants

79856 Farmworkers, Food and Fiber Crops

79858 Farmworkers, Farm and Ranch Animals

79999 All Other Agricultural, Forestry, Fishing, and Related Workers

80000 VII. Production, Construction, Operating, Maintenance, and Material Handling Occupations

81000 A. First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance, and Related

- 81002 First-Line Supervisors and Managers/Supervisors - Mechanics, Installers, and Repairers
- 81005 First-Line Supervisors and Managers/Supervisors - Construction Trades and Extractive Workers
- 81008 First-Line Supervisors and Managers/Supervisors - Production and Operating Workers
- 81011 First-Line Supervisors and Managers/Supervisors - Transportation and Material-Moving Machine and Vehicle Operators
- 81017 First-Line Supervisors and Managers/Supervisors - Helpers, Laborers, and Material Movers, Hand
- 81099 All Other First-Line Supervisors and Managers/Supervisors - Production, Construction, Maintenance, and Related Workers

83000 B. Inspectors and Related Occupations

- 83002 Precision Inspectors, Testers, and Graders
- 83005 Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers
- 83008 Transportation Inspectors
- 83099 All Other Inspectors, Testers, and Related Workers

85000 C. Mechanics, Installers, and Repairers

85100 1. Machinery and Related Mechanics, Installers, and Repairers

- 85110 Machinery Maintenance Mechanics
- 85112 Machinery Maintenance Mechanics, Textile Machines
- 85113 Machinery Maintenance Mechanics, Sewing Machines
- 85116 Machinery Maintenance Mechanics, Marine Equipment
- 85117 Underground Mine Machinery Mechanics
- 85118 Machinery Maintenance Mechanics, Water or Power Generation Plant
- 85119 All Other Machinery Maintenance Mechanics
- 85123 Millwrights
- 85126 Refractory Materials Repairers, Except Brickmasons
- 85128 Machinery Maintenance Workers
- 85132 Maintenance Repairers, General Utility

85300 *2. Mobile Equipment Mechanics, Installers, and Repairers*

- 85302 Automotive Mechanics
- 85305 Automotive Body and Related Repairers
- 85308 Motorcycle Repairers
- 85311 Bus and Truck Mechanics and Diesel Engine Specialists
- 85314 Mobile Heavy Equipment Mechanics, Except Engines
- 85317 Rail Car Repairers
- 85321 Farm Equipment Mechanics
- 85323 Aircraft Mechanics
- 85326 Aircraft Engine Specialists
- 85328 Small Engine Specialists

85500 *3. Communications Equipment Mechanics, Installers, and Repairers*

- 85502 Central Office and PBX Installers and Repairers
- 85505 Frame Wires, Central Office
- 85508 Telegraph and Teletype Installers and Maintainers
- 85511 Signal or Track Switch Maintainers
- 85514 Radio Mechanics
- 85599 All Other Communications Equipment Mechanics, Installers, and Repairers

85700 *4. Other Electrical and Electronic Equipment Mechanics, Installers, and Repairers*

- 85702 Telephone and Cable Television Line Installers and Repairers
- 85705 Data Processing Equipment Repairers
- 85708 Electronic Home Entertainment Equipment Repairers
- 85711 Electric Home Appliance and Power Tool Repairers
- 85714 Electric Motor, Transformer, and Related Repairers
- 85717 Electronics Repairers, Commercial and Industrial Equipment
- 85721 Powerhouse, Substation, and Relay Electricians
- 85723 Electrical Power-Line Installers and Repairers
- 85726 Station Installers and Repairers, Telephone
- 85728 Electrical Installers and Repairers, Transportation Equipment
- 85799 All Other Electrical and Electronic Equipment Mechanics, Installers, and Repairers

85900 5. Other Mechanics, Installers, and Repairers

- 85902 Heating, Air Conditioning, and Refrigeration Mechanics and Installers
- 85905 Precision Instrument Repairers
- 85908 Electromedical and Biomedical Equipment Repairers
- 85911 Electric Meter Installers and Repairers
- 85914 Camera and Photographic Equipment Repairers
- 85917 Watchmakers
- 85921 Musical Instrument Repairers and Tuners
- 85923 Locksmiths and Safe Repairers
- 85926 Office Machine and Cash Register Servicers
- 85928 Mechanical Control and Valve Installers and Repairers
- 85932 Elevator Installers and Repairers
- 85935 Riggers
- 85938 Installers and Repairers, Manufactured Buildings, Mobile Homes, and Travel Trailers
- 85944 Gas Appliance Repairers
- 85947 Coin and Vending Machine Servicers and Repairers
- 85951 Bicycle Repairers
- 85953 Tire Repairers and Changers
- 85956 Menders, Garments, Linens, and Related
- 85999 All Other Mechanics, Installers, and Repairers

87000 D. Construction Trades and Extractive Occupations, Except Material Moving**87100 1. Carpentry and Related Workers**

- 87102 Carpenters
- 87105 Ceiling Tile Installers and Acoustical Carpenters
- 87108 Drywall Installers
- 87111 Tapers
- 87114 Lathers
- 87121 Brattice Builders

87200 2. Electrical and Related Workers

- 87202 Electricians

87300 3. Masonry and Related Workers

- 87302 Brickmasons
- 87305 Stonemasons
- 87308 Hard Tile Setters
- 87311 Concrete and Terrazzo Finishers
- 87314 Reinforcing Metal Workers
- 87317 Plasterers and Stucco Masons

87400 *4. Painting and Related Workers*

87402 Painters and Paperhangers, Construction and Maintenance

87500 *5. Plumbing and Related Workers*

87502 Plumbers, Pipefitters, and Steamfitters

87505 Pipelaying Fitters

87508 Pipelayers

87511 Septic Tank Servicers and Sewer Pipe Cleaners

87600 *6. Floor Related Workers, Except Carpenters*

87602 Carpet Installers

87605 Floor Layers, Except Carpet, Wood, and Hard Tiles

87608 Floor Sanding Machine Operators

87700 *7. Road, Rail, and Related Construction and Maintenance Workers, Except Masonry Workers*

87702 Air Hammer Operators

87705 Pile-Driver Operators

87708 Paving, Surfacing, and Tamping Equipment Operators

87711 Highway Maintenance Workers

87714 Rail-Track Laying and Maintenance Equipment Operators

87800 *8. Other Construction Trades Workers*

87802 Insulation Workers

87803 Hazardous Materials Removal Workers

87805 Sheet Metal Duct Installers

87808 Roofers

87811 Glaziers

87814 Structural Metal Workers

87817 Fence Erectors

87899 All Other Construction Trades Workers

87900 9. Extractive and Related Workers- Including Blasters

- 87902 Earth Drillers, Except Oil and Gas
- 87905 Blasters and Explosives Workers
- 87908 Rock Splitters, Quarry
- 87911 Rotary Drill Operators, Oil and Gas Extraction
- 87914 Derrick Operators, Oil and Gas Extraction
- 87917 Service Unit Operators
- 87921 Roustabouts
- 87923 Roof Bolters
- 87940 Mining Machine Operators
- 87941 Continuous Mining Machine Operators
- 87943 Mine Cutting and Channeling Machine Operators
- 87949 All Other Mining Machine Operators
- 87989 All Other Extractive Workers, Except Helpers
- 87999 All Other Construction and Extractive Workers, Except Helpers

89000 E. Precision Production Occupations**89100 1. Precision Metal Workers**

- 89102 Tool and Die Makers
- 89105 Precision Instrument Makers
- 89108 Machinists
- 89111 Tool Grinders, Filers, Sharpeners, and Other Precision Grinders
- 89114 Pattern and Model Makers, Metal
- 89117 Precision Lay-Out Workers, Metal
- 89121 Shipfitters
- 89123 Jewelers and Silversmiths
- 89126 Precision Hand Workers, Jewelry and Related Products
- 89128 Precision Etchers and Engravers, Hand or Machine
- 89132 Sheet Metal Workers
- 89135 Boilermakers
- 89199 All Other Precision Metal Workers

89300 2. Precision Woodworkers

- 89302 Pattern and Model Makers, Wood
- 89305 Pattern Markers, Wood
- 89308 Wood Machinists
- 89311 Cabinetmakers and Bench Carpenters
- 89314 Furniture Finishers
- 89399 All Other Precision Woodworkers

89500 3. Precision Textile, Apparel, and Furnishings Workers

- 89502 Fabric and Apparel Patternmakers and Lay-Out Workers
- 89505 Custom Tailors and Sewers
- 89508 Upholsterers
- 89511 Shoe and Leather Workers and Repairers, Precision
- 89514 Spotters, Dry-Cleaning
- 89517 Pressers, Delicate Fabrics
- 89521 Precision Dyers
- 89599 All Other Precision Textile, Apparel, and Furnishings Workers

89700 4. Precision Printing Workers

- 89702 Hand Compositors and Typesetters
- 89705 Job Printers
- 89706 Paste-Up Workers
- 89707 Electronic Pagination System Operators
- 89710 Precision Lithography and Photoengraving Workers
- 89712 Photoengravers
- 89713 Camera Operators
- 89715 Scanner Operators
- 89717 Strippers
- 89718 Platemakers
- 89719 All Other Lithography and Photoengraving Workers
- 89721 Bookbinders
- 89799 All Other Precision Printing Workers

89800 5. Precision Food Workers

- 89802 Slaughterers and Butchers
- 89805 Bakers, Manufacturing
- 89808 Food Batchmakers
- 89899 All Other Precision Food and Tobacco Workers

89900 6. Other Precision Workers

- 89902 Precision Foundry Mold and Coremakers
- 89905 Precision Molders, Shapers, Casters, and Carvers, Except Jewelry and Foundry
- 89908 Precision Patternmakers, Model Makers, Lay-Out Workers, and Cutters
- 89911 Precision Detail Design Decorators and Painters
- 89914 Precision Photographic Process Workers
- 89917 Precision Optical Goods Workers
- 89921 Precision Dental Laboratory Technicians
- 89923 Medical Appliance Makers
- 89926 Gem and Diamond Workers
- 89999 All Other Precision Workers

91000 F. Machine Setters, Set-Up Operators, Operators, and Tenders**91100 1. Machine Tool Cutting Setters, Operators, and Related Workers- Metal and Plastic**

- 91102 Sawing Machine Tool Setters and Set-Up Operators, Metal and Plastic
- 91105 Lathe and Turning Machine Tool Setters and Set-Up Operators, Metal and Plastic
- 91108 Drilling and Boring Machine Tool Setters and Set-Up Operators, Metal and Plastic
- 91111 Milling and Planing Machine Setters and Set-Up Operators, Metal and Plastic
- 91114 Grinding, Lapping, and Buffing Machine Tool Setters and Set-Up Operators, Metal and Plastic
- 91117 Machine Tool Cutting Operators and Tenders, Metal and Plastic

91300 2. Machine Forming Setters, Operators, and Related Workers- Metal and Plastic

- 91302 Punching Machine Setters and Set-Up Operators, Metal and Plastic
- 91305 Press and Press-Brake Machine Setters and Set-Up Operators, Metal and Plastic
- 91308 Shear and Slitter Machine Setters and Set-Up Operators, Metal and Plastic
- 91311 Extruding and Drawing Machine Setters and Set-Up Operators, Metal and Plastic
- 91314 Rolling Machine Setters and Set-Up Operators, Metal and Plastic
- 91317 Forging Machine Setters and Set-Up Operators, Metal and Plastic
- 91321 Machine Forming Operators and Tenders, Metal and Plastic

- 91500 *3. Numerical and Combination Machine Tool Setters, Operators, and Related Workers- Metal and Plastic*
 - 91502 Numerical Control Machine Tool Operators and Tenders, Metal and Plastic
 - 91505 Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic
 - 91508 Combination Machine Tool Operators and Tenders, Metal and Plastic

- 91700 *4. Metal Fabricating and Related Machine Setters, Operators, and Related Workers*
 - 91702 Welding Machine Setters and Set-Up Operators
 - 91705 Welding Machine Operators and Tenders
 - 91708 Soldering and Brazing Machine Setters and Set-Up Operators
 - 91711 Soldering and Brazing Machine Operators and Tenders
 - 91714 Metal Fabricators, Structural Metal Products

- 91900 *5. Metal and Plastic Processing Machine Setters, Operators, and Related Workers*
 - 91902 Plastic Molding and Casting Machine Setters and Set-Up Operators
 - 91905 Plastic Molding and Casting Machine Operators and Tenders
 - 91908 Metal Molding, Coremaking, and Casting Machine Setters and Set-Up Operators
 - 91911 Metal Molding, Coremaking, and Casting Machine Operators and Tenders
 - 91914 Foundry Mold Assembly and Shake-Out Workers
 - 91917 Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
 - 91921 Electrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic
 - 91923 Nonelectrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
 - 91926 Nonelectrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic
 - 91928 Heating Equipment Setters and Set-Up Operators, Metal and Plastic
 - 91932 Heat Treating, Annealing, and Tempering Machine Operators and Tenders, Metal and Plastic
 - 91935 Furnace Operators and Tenders
 - 91938 Heaters, Metal and Plastic

- 92100 6. Other Metal and Plastic Machine Setters, Operators, and Related Workers**
- 92197 All Other Metal and Plastic (Cutting, Forming, Fabricating, or Processing) Machine Setters and Set-Up Operators
 - 92198 All Other Metal and Plastic (Cutting, Forming, Fabricating, or Processing) Machine Operators and Tenders
- 92300 7. Woodworking Machine Setters, Operators, and Related Workers**
- 92302 Sawing Machine Setters and Set-Up Operators
 - 92305 Head Sawyers
 - 92308 Sawing Machine Operators and Tenders
 - 92311 Woodworking Machine Setters and Set-Up Operators, Except Sawing
 - 92314 Woodworking Machine Operators and Tenders, Except Sawing
- 92500 8. Printing, Binding, and Related Workers**
- 92510 Printing Press Machine Setters and Set-Up Operators
 - 92512 Offset Lithographic Press Setters and Set-Up Operators
 - 92515 Letterpress Setters and Set-Up Operators
 - 92519 All Other Printing Press Setters and Set-Up Operators
 - 92522 Specialty Materials Printing Machine Setters and Set-Up Operators
 - 92524 Screen Printing Machine Setters and Set-Up Operators
 - 92525 Bindery Machine Setters and Set-Up Operators
 - 92529 All Other Printing Related Machine Setters and Set-Up Operators
 - 92541 Typesetting and Composing Machine Operators and Tenders
 - 92543 Printing Press Machine Operators and Tenders
 - 92545 Photoengraving and Lithographing Machine Operators and Tenders
 - 92546 Bindery Machine Operators and Tenders
 - 92549 All Other Printing, Binding, and Related Machine Operators and Tenders
- 92700 9. Textile and Related Setters, Operators, and Related Workers**
- 92702 Textile Machine Setters and Set-Up Operators
 - 92705 Textile Machine Operators and Tenders, Winding, Twisting, Knitting, Weaving, and Cutting
 - 92708 Extruding and Forming Machine Operators and Tenders, Synthetic or Glass Fibers
 - 92711 Textile Draw-Out Machine Operators and Tenders
 - 92714 Textile Bleaching and Dyeing Machine Operators and Tenders
 - 92717 Sewing Machine Operators, Garment
 - 92721 Sewing Machine Operators, Nongarment
 - 92723 Shoe Sewing Machine Operators and Tenders
 - 92726 Laundry and Dry-Cleaning Machine Operators and Tenders, Except Pressing

92728 Pressing Machine Operators and Tenders, Textile, Garment, and Related Materials

92900 10. Other Machine Setters, Set-Up Operators, Operators, and Tenders- Except Metal and Plastic

- 92902 Electronic Semiconductor Processors
- 92905 Motion Picture Projectionists
- 92908 Photographic Processing Machine Operators and Tenders
- 92911 Tire Building Machine Operators
- 92914 Paper Goods Machine Setters and Set-Up Operators
- 92917 Cooking Machine Operators and Tenders, Food and Tobacco
- 92921 Roasting, Baking, and Drying Machine Operators and Tenders, Food and Tobacco
- 92923 Furnace, Kiln, Oven, Drier, or Kettle Operators and Tenders
- 92926 Boiler Operators and Tenders, Low Pressure
- 92928 Cooling and Freezing Equipment Operators and Tenders
- 92932 Dairy Processing Equipment Operators, Including Setters
- 92935 Chemical Equipment Controllers and Operators
- 92938 Chemical Equipment Tenders
- 92941 Cutting and Slicing Machine Setters and Set-Up Operators
- 92944 Cutting and Slicing Machine Operators and Tenders
- 92947 Painters, Transportation Equipment
- 92951 Coating, Painting, and Spraying Machine Setters and Set-Up Operators
- 92953 Coating, Painting, and Spraying Machine Operators and Tenders
- 92956 Cementing and Gluing Machine Operators and Tenders
- 92958 Cleaning, Washing, and Pickling Equipment Operators and Tenders
- 92962 Separating, Filtering, Clarifying, Precipitating, and Still Machine Operators and Tenders
- 92965 Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders
- 92968 Extruding, Forming, Pressing, and Compacting Machine Setters and Set-Up Operators
- 92971 Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders
- 92974 Packaging and Filling Machine Operators and Tenders
- 92997 All Other Machine Setters and Set-Up Operators
- 92998 All Other Machine Operators and Tenders

93000 G. Hand Working Occupations, Including Assemblers and Fabricators**93100 1. Precision Assemblers**

- 93102 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers, Precision
- 93105 Machine Builders and Other Precision Machine Assemblers
- 93108 Fitters, Structural Metal, Precision
- 93111 Electromechanical Equipment Assemblers, Precision
- 93114 Electrical and Electronic Equipment Assemblers, Precision
- 93117 Watch, Clock, and Chronometer Assemblers, Adjusters, Calibrators, Precision
- 93197 All Other Precision Assemblers

93900 2. Other Hand Workers, Including Assemblers and Fabricators

- 93902 Machine Assemblers
- 93905 Electrical and Electronic Assemblers
- 93908 Coil Winders, Tapers, and Finishers
- 93911 Glaziers, Manufacturing
- 93914 Welders and Cutters
- 93917 Solderers and Brazers
- 93921 Pressers, Hand
- 93923 Sewers, Hand
- 93926 Cutters and Trimmers, Hand
- 93928 Portable Machine Cutters
- 93932 Carpet Cutters, Diagrammers, and Seamers
- 93935 Cannery Workers
- 93938 Meat, Poultry, and Fish Cutters and Trimmers, Hand
- 93941 Metal Pourers and Casters, Basic Shapes
- 93944 Molders and Casters, Hand
- 93947 Painting, Coating, and Decorating Workers, Hand
- 93951 Engraving and Printing Workers, Hand
- 93953 Grinding and Polishing Workers, Hand
- 93956 Assemblers and Fabricators, Except Machine, Electrical, Electronic, and Precision
- 93999 All Other Hand Workers

95000 H. Plant and System Occupations

- 95002 Water and Liquid Waste Treatment Plant and System Operators
- 95005 Gas Plant Operators
- 95008 Chemical Plant and System Operators
- 95011 Petroleum Pump System Operators
- 95014 Petroleum Refinery and Control Panel Operators
- 95017 Gaugers
- 95021 Power-Generating Plant Operators, Except Auxiliary Equipment Operators
- 95023 Auxiliary Equipment Operators, Power
- 95026 Power Reactor Operators
- 95028 Power Distributors and Dispatchers
- 95032 Stationary Engineers
- 95099 All Other Plant and System Operators

97000 I. Transportation and Material Moving Machine and Vehicle Operators**97100 1. Motor Vehicle Operators**

- 97102 Truck Drivers, Heavy or Tractor-Trailer
- 97105 Truck Drivers, Light, Include Delivery and Route Workers
- 97108 Bus Drivers
- 97111 Bus Drivers, School
- 97114 Taxi Drivers and Chauffeurs
- 97117 Driver/Sales Workers
- 97199 All Other Motor Vehicle Operators

97300 2. Rail Transportation Workers

- 97302 Railroad Conductors and Yardmasters
- 97305 Locomotive Engineers
- 97308 Rail Yard Engineers, Dinkey Operators, and Hostlers
- 97311 Locomotive Firers
- 97314 Subway and Streetcar Operators
- 97317 Railroad Brake, Signal, and Switch Operators
- 97399 All Other Rail Vehicle Operators and Controllers

97500 3. Water Transportation and Related Workers

- 97502 Captains, Water Vessel
- 97505 Mates, Ship, Boat, and Barge
- 97508 Pilots, Ship
- 97511 Motorboat Operators
- 97514 Able Seamen
- 97517 Ordinary Seamen and Marine Oilers
- 97521 Ship Engineers

97700 4. Air Transportation Workers

- 97702 Aircraft Pilots and Flight Engineers

97800 5. Other Transportation and Related Workers

- 97802 Bridge, Lock, and Lighthouse Tenders
- 97805 Service Station Attendants
- 97808 Parking Lot Attendants
- 97899 All Other Transportation and Related Workers

97900 6. Material Moving Equipment Operators

- 97902 Longshore Equipment Operators
- 97905 Tank Car and Truck Loaders
- 97908 Oil Pumpers, Except Wellhead
- 97911 Wellhead Pumpers
- 97914 Main-Line Station Engineers
- 97917 Gas Pumping Station Operators
- 97921 Gas Compressor Operators
- 97923 Excavating and Loading Machine Operators
- 97926 Dragline Operators
- 97928 Dredge Operators
- 97932 Loading Machine Operators, Underground Mining
- 97935 Shuttle Car Operators
- 97938 Grader, Bulldozer, and Scraper Operators
- 97941 Hoist and Winch Operators
- 97944 Crane and Tower Operators
- 97947 Industrial Truck and Tractor Operators
- 97951 Conveyor Operators and Tenders
- 97953 Pump Operators
- 97956 Operating Engineers
- 97989 All Other Material-Moving Equipment Operators
- 97999 All Other Transportation and Material-Moving Equipment Operators

**98000 J. Helpers, Laborers, and Material Movers, Hand- Exclude
Agriculture and Forestry Laborers****98100 1. Helpers- Mechanics and Repairers**

98102 Helpers, Mechanics and Repairers

98300 2. Helpers- Construction Trades and Extractive Workers

98311 Helpers, Brick and Stonemasons and Hard Tile Setters

98312 Helpers, Carpenters and Related Workers

98313 Helpers, Electricians and Power-Line Transmission Installers

98314 Helpers, Painters, Paperhangers, Plasterers, and Stucco Masons

98315 Helpers, Plumbers, Pipefitters, and Steamfitters

98316 Helpers, Roofers

98319 Helpers, All Other Construction Trades Workers

98323 Helpers, Extractive Workers

98500 3. Machine Feeders and Offbearers

98502 Machine Feeders and Offbearers

98700 4. Freight, Stock, and Material Movers, Hand

98702 Stevedores, Except Equipment Operators

98705 Refuse and Recyclable Material Collectors

98799 All Other Freight, Stock, and Material Movers, Hand

98900 5. Other Helpers, Laborers, and Material Movers, Hand

98902 Hand Packers and Packagers

98905 Vehicle Washers and Equipment Cleaners

98999 All Other Helpers, Laborers, and Material Movers, Hand